

4.2.J. 05130203100.

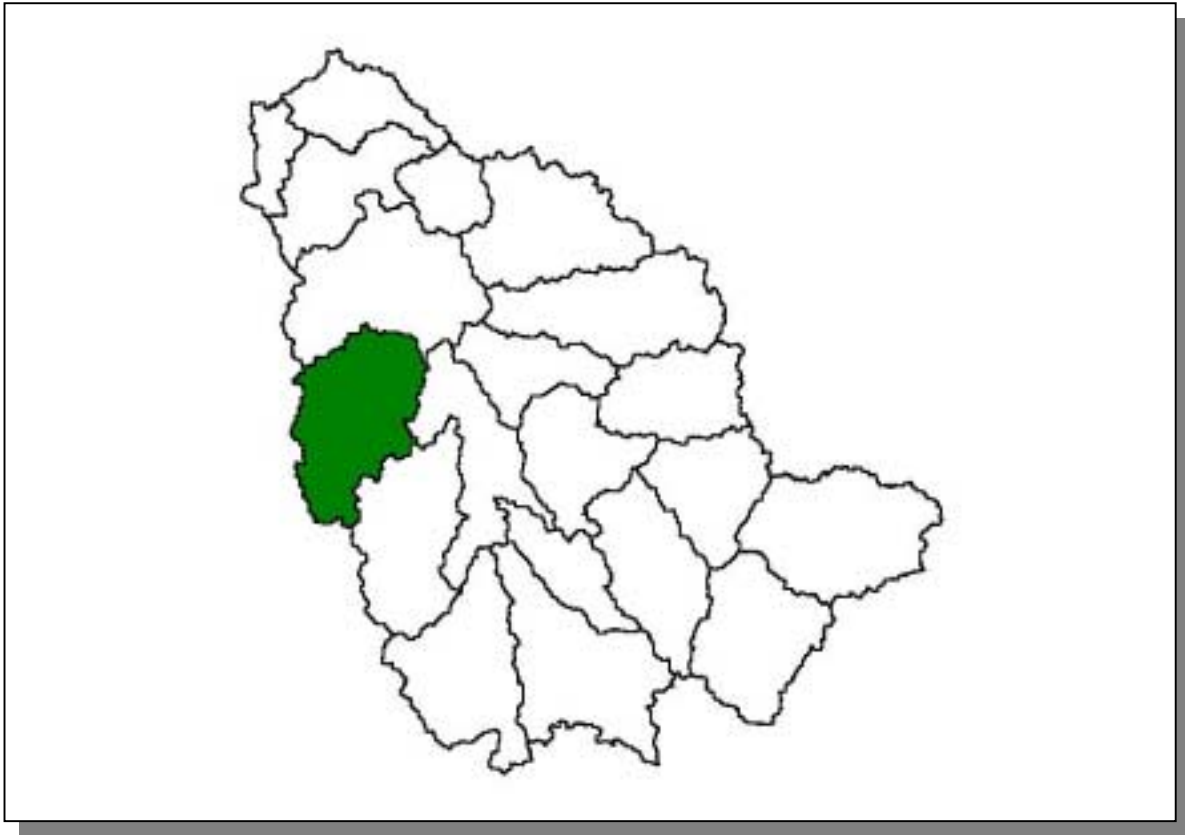


Figure 4-54. Location of Subwatershed 05130203100. All Stones HUC-14 subwatershed boundaries are shown for reference.

4.2.J.i. General Description.

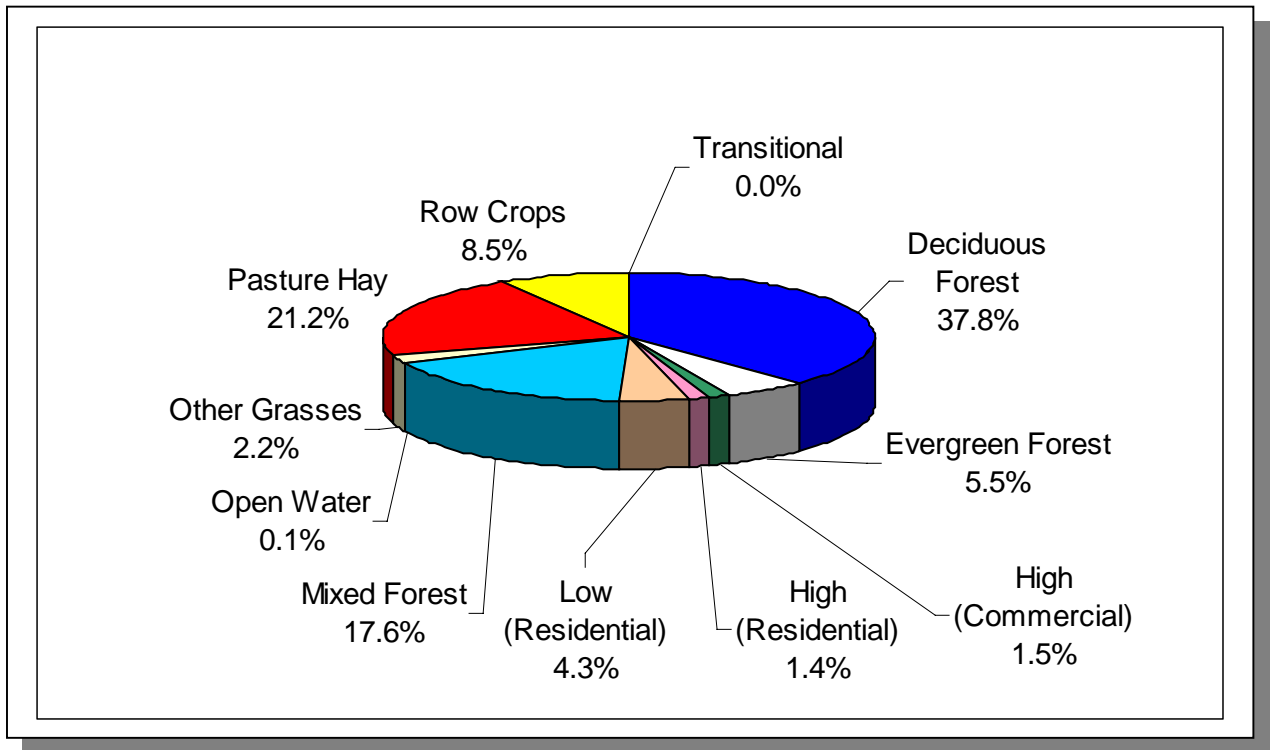


Figure 4-55. Land Use Distribution in Subwatershed 05130203100. More information is provided in Stones-Appendix IV.

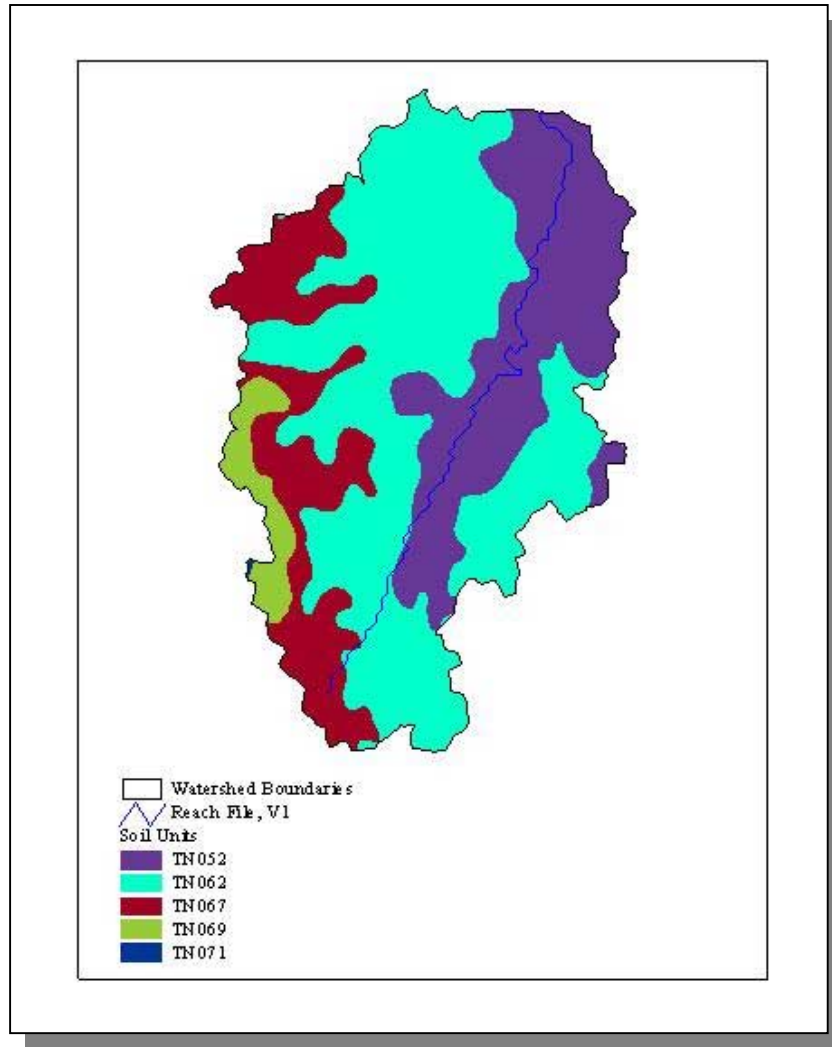


Figure 4-56. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 05130203100.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN052	0.00	B	1.23	5.46	Silty Loam	0.39
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN067	2.00	C	2.69	5.51	Silty Loam	0.35
TN069	0.00	C	2.06	5.36	Loam	0.34
TN071	0.00	C	2.37	5.70	Silty Loam	0.33

Table 4-59. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 05130203100. More information is provided in Stones-Appendix IV

	COUNTY POPULATION			ESTIMATED POPULATION IN WATERSHED		% CHANGE
County	1990	1997 Est.	Portion of Watershed (%)	1990	1997	
Rutherford	118,570	159,987	9.33	11,062	14,926	34.9
Williamson	81,021	111,453	0.73	593	816	37.6
Totals	199,591	271,440		11,655	15,742	35.1

Table 4-60. Population Estimates in Subwatershed 05130203100.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
La Vergne	Rutherford	7,499	2,810	2,299	451	60
Smyrna	Rutherford	13,647	5,312	4,959	346	7
Total		21,148	8,122	7,258	797	67

Table 4-61. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 05130203100.



Figure 4-57. Location of STORET Monitoring Stations in Subwatershed 05130203100. More information is provided in Stones-Appendix IV.

4.2.J.ii. Point Source Contributions.



Figure 4-58. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 05130203100. More information, including the names of facilities, is provided in Stones-Appendix IV.

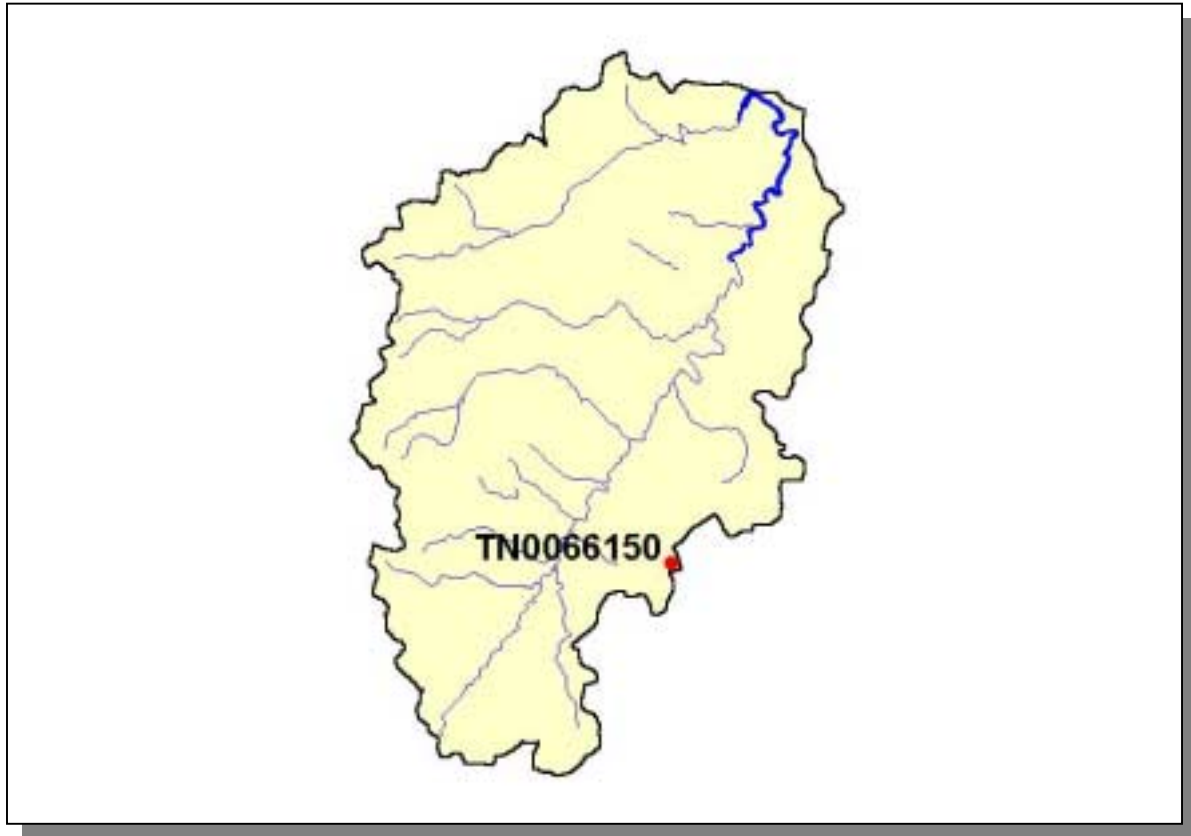


Figure 4-59. Location of Active Mining Sites in Subwatershed 05130203100. More details may be found in Stones-Appendix IV.

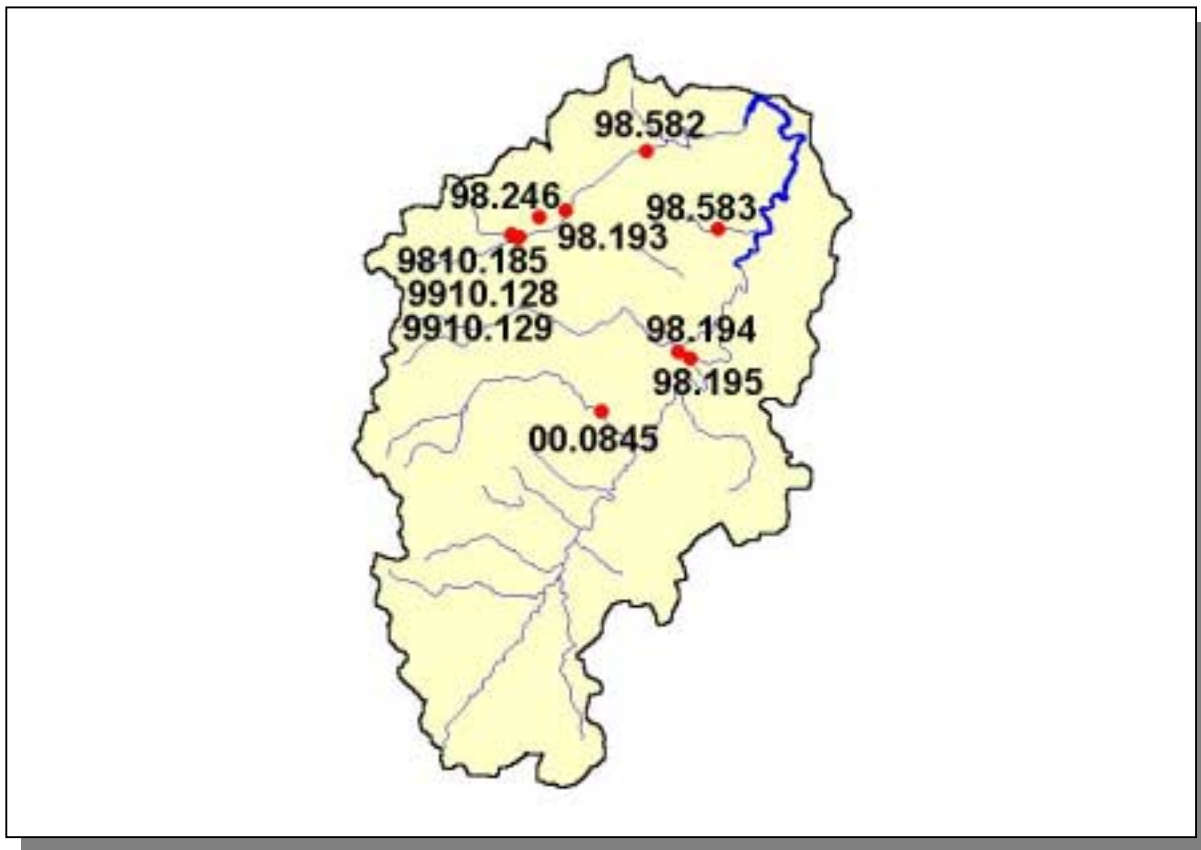


Figure 4-60. Location of ARAP Sites (Individual Permits) in Subwatershed 05130203100.
More details may be found in Stones-Appendix IV.

4.2.J.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List:

There is one facility discharging to water bodies listed on the 1998 303(d) list in Subwatershed 05130203100:

- TN 0020541 discharges to Stewart Creek @ RM 5.65



Figure 4-61. Location of NPDES Discharger to Water Bodies Listed on the 1998 303(d) List in Subwatershed 05130203100. The names of facilities are provided in Stones-Appendix IV.

PERMIT #	7Q10	1Q20	30Q2	QDESIGN
TN0020541	0	0	0	5.2

Table 4-62. Receiving Stream Flow Information for NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 05130203100. Data are in million gallons per day (MGD). Data were calculated using data in Flow Duration and Low Flows of Tennessee Streams Through 1992.

PERMIT #	CBOD ₅	NH ₃	FECAL	WET
TN0020541	X	X	X	X

Table 4-63. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 05130203100.

4.2.J.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)					
Beef Cow	Cattle	Milk Cow	Chickens	Hogs	Sheep
2,038	4,212	247	6	121	45

Table 4-64. Summary of Livestock Count Estimates in Subwatershed 05130203100.
According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Rutherford	155.7	155.7	0.4	0.9
Williamson	142.0	142.0	1.0	3.3
Total	297.7	297.7	1.4	4.2

Table 4-65. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 05130203100.

CROP	TONS/ACRE/YEAR
Non Agricultural Land Use	0.00
Berry (Horticultural)	0.47
Corn (Row Crops)	3.73
Soybeans (Row Crops)	2.86
Cotton (Row Crops)	4.79
Grass (Hayland)	0.20
Legume (Hayland)	0.37
Legume,Grass (Hayland)	0.47
Grass (Pastureland)	0.87
Legume (Pastureland)	0.13
Grass, Forbs, Legumes (Mixed Pasture)	0.53
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Farmsteads and Ranch Headquarters	0.46
Conservation Reserve Program Land	0.27
Tobacco (Row Crops)	6.75
Wheat (Close Grown Cropland)	1.27
Other Cropland not Planted	6.46
Other Land in Farms	0.12

Table 4-66. Annual Estimated Total Soil Loss in Subwatershed 05130203100.